

# Model Examinations of the School Book

## Model

1

Answer the following questions :

1 Choose the correct answer :

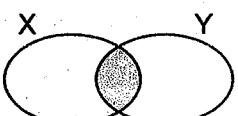
(1) The triangle whose measures of its angles are  $50^\circ$  ,  $90^\circ$  and  $40^\circ$  is ..... ( a acute-angled triangle or an obtuse-angled triangle or a right-angled triangle or otherwise )

(2)  $4 \frac{1}{8} \times 2 \frac{2}{3} = \dots$  ( 1 or 10 or 11 or 111 )

(3) If  $\{7, 10\} \subset \{10, x + 4\}$  , then  $x = \dots$  ( 3 or 4 or 5 or 6 )

(4)  $3.75 \times 1000 = \dots$  ( 0.375 or 0.0375 or 3750 or 37.5 )

(5)  $\frac{1}{2} \boxed{\quad} \frac{1}{3}$  ( $<$  or  $>$  or  $=$  or  $\leq$ )

(6)  The shaded part is .....

( $X \cap Y$  or  $X \cup Y$  or  $X - Y$  or  $X \subset Y$ )

(7)  $55.241 \times 100 \boxed{\quad} 522.41 \times 10$  ( $<$  or  $>$  or  $=$  or  $\leq$ )

(8)  $\frac{2}{3} \times \dots = 1$  ( 1 or 2 or 3 or  $\frac{3}{2}$  )

(9) 43 day  $\simeq \dots$  (to the nearest week) ( 4 or 6 or 5 or 7 )

(10) Any chord passing through the centre of a circle is called .....  
( a diameter or a radius or a side or otherwise )

(11)  $\{52\} \dots \{5, 2\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(12)  $12.3 \times \dots = 1230$  ( 10 or 100 or 1000 or 10000 )

(13)  $Y = \{2, 4, 6\} \cap \{1, 2, 3\}$  , then 6 ..... Y  
( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

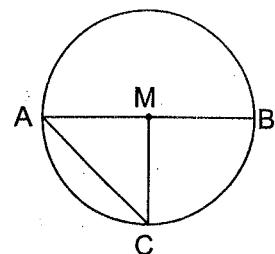
(14)  $\frac{5}{8} \boxed{\quad} 0.5734$  ( $<$  or  $>$  or  $=$  or  $\leq$ )

**2** Complete each of the following :

(15) In the opposite figure :

[a]  $MA = \dots = \dots$

[b] The longest chord in the circle is  $\dots$



(16)  $\frac{4}{12} \div \frac{6}{12} = \dots$

(17) The probability of the sure event =  $\dots$

(18) If  $\frac{x}{8} = \frac{15}{24}$ , then  $x = \dots$

(19) 2.4 decimetre =  $\dots$  cm.

(20) In the opposite figure :

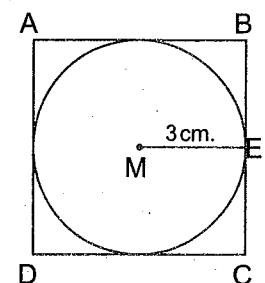
If  $ME = 3$  cm. ,

then the perimeter

of the square =  $\dots$  cm.

(21)  $65.384 - \dots = 65$

(22)  $\frac{3}{25} \div \dots = \frac{25}{3}$


**3** Answer the following :

(23) Draw the triangle ABC where

$AB = 4$  cm. ,  $BC = 6$  cm. and  $CA = 8$  cm.

, then draw a circle its centre is B and its radius length is 4 cm.

(24) From the table , find the probability that a pupil plays basketball :

Game	Football	Basketball	Handball
Number of pupils	50	40	10

(25) Arrange in a descending order :

$$5\frac{1}{2}, 6\frac{1}{4}, 5\frac{3}{4} \text{ and } 5\frac{2}{5}$$

(26) Find the width of a rectangle whose area is 10.25 metre square and its length is 4.1 metres , then find its perimeter.

.....  
 .....

Model

2

Answer the following questions :

1 Choose the correct answer :

(1)  $3.36 \text{ km.} = \dots \text{ m.}$  ( 3.36 or 33.6 or 336 or 3360 )

(2)  $9 \frac{3}{25} \approx \dots$  (to the nearest tenth) ( 0.9 or 9.2 or 9.1 or 9 )

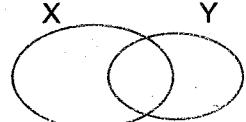
(3)  $\frac{5}{6} \div 1 \frac{1}{6} = \dots$  ( $\frac{5}{7}$  or  $\frac{2}{6}$  or  $\frac{3}{7}$  or  $\frac{7}{6}$  )

(4)  $0.312 \times 100 \square 312 \div 100$  ( $>$  or  $<$  or  $=$  or  $\leq$  )

(5) The smallest number from the following is ..... ( 0.111 or 0.12 or 0.123 or 1.023 )

(6)  $10 \times 4.72 \square 100 \times 0.472$  ( $<$  or  $>$  or  $=$  or otherwise )

(7)  $\frac{3}{5} \times 1.6 > 1.6 \times \dots$  ( 0.6 or 1.6 or  $\frac{5}{3}$  or 0.3 )

(8) The shaded part represents ..... 

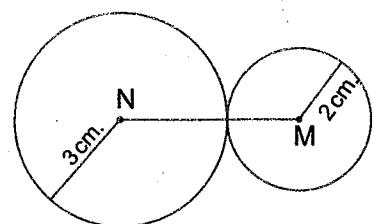
( $X \cap Y$  or  $X \cup Y$  or  $X - Y$  or  $Y - X$  )

(9) If  $Y = \{2, 3, 5\} \cap \{1, 3, 5\}$ , then  $\{1, 2\} \dots Y$

( $\subset$  or  $\not\subset$  or  $\in$  or  $\notin$  )

(10) In the opposite figure :

$MN = \dots \text{ cm.}$



( 2 or 3 or 6 or 5 )

(11) The length of the diameter of any circle  $\square$  the length of any chord in it does not passing through the centre

( $>$  or  $<$  or  $=$  or  $\leq$  )

(12)  $\{0\} \dots \{1, 2, 5, 8\}$  ( $\subset$  or  $\not\subset$  or  $\in$  or  $\notin$  )

(13) The number  $736.592 \approx 736.59$  to the nearest .....

( tenth or hundredth or thousandth )

(14) If  $\frac{2}{3} = \frac{16}{C}$ , then the value of  $C = \dots$  ( 2 or 3 or 12 or 24 )

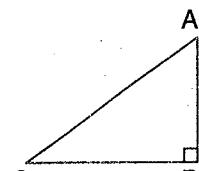
**2 Complete each of the following :**

(15) If the probability of a pupil succeed in an exam is  $\frac{8}{10}$  , then the probability of his fail = .....

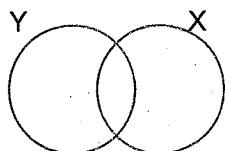
(16) If  $X \subset Y$  , then  $X \cap Y$  = .....

(17) In the opposite figure :

The corresponding height  
of the base  $\overline{BC}$  is .....



(18) The shaded part  
represents .....



(19) A circle its radius length = 1 cm. ,  
then its diameter length = ..... cm.

(20)  $4.6798 \approx \dots$  (to the nearest thousandth)

(21)  $2\frac{1}{4} \times \dots = 1$

(22)  $3978 \div \dots = 3.978$

**3 Answer the following :**

(23) If  $U = \{x : x \text{ is an odd number } < 15\}$  ,  $X = \{1, 3\}$  and  
 $Y = \{1, 5, 9, 13\}$  , draw a Venn diagram that represents the sets  
 $U$  ,  $X$  and  $Y$  , then find  $X \cap Y$

(24) Draw a circle M of radius length 2.5 cm. , then draw the diameter  $\overline{AB}$   
and the chord  $\overline{AC}$  of length 3 cm. Join  $\overline{BC}$  , then measure its length

(25) A box contains identical balls where 5 balls are white , 9 red and  
6 black. If one ball is chosen randomly , what is the probability that  
the chosen ball is white ?

.....

(26) A rectangle , its length is 4.1 cm. and its width is 3.5 cm. ,  
calculate its area.

.....

Model examination for the special needs students

Answer the following questions :

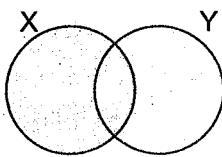
1 Choose the correct answer :

(1)  $\frac{1}{3} \times \frac{3}{4} = \dots$  (  $\frac{1}{3}$  or  $\frac{1}{2}$  or  $\frac{1}{4}$  )

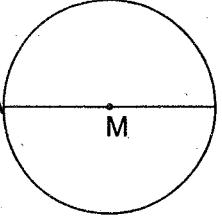
(2) If  $3 \in \{x, 5\}$ , then  $x = \dots$  ( 5 or 3 or 8 )

(3)  $312 \div 10 = \dots$  ( 3.12 or 0.312 or 31.2 )

(4) The shaded part

is .....  


( $X \cup Y$  or  $X \cap Y$  or  $X - Y$ )

(5) A  B  $\overline{AB}$  is called a .....

(diameter or radius or side)

(6)  $14.4 \times 10 \boxed{ } 144$  ( $>$  or  $<$  or  $=$ )

(7) In any triangle, there are ..... heights. ( 1 or 2 or 3 )

(8)  $\{5\} \dots \{5, 8\}$  ( $\subset$  or  $\notin$  or  $\not\subset$ )

(9) When tossing a coin once, the probability of appearing a tail = .....

( 1 or  $\frac{1}{2}$  or  $\frac{1}{4}$  )

(10)  $\frac{1}{2} = \dots$  ( 5 or 0.5 or 0.05 )

2 Use the following answers to complete the questions below :

(  $\frac{1}{6}$  , 12.1 , 2 , 4.9 , {1, 5} )

(1)  $4.85 \approx \dots$  (to the nearest tenth)

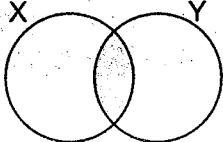
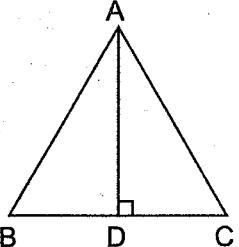
(2) When tossing a die once, the probability of appearing the number 3 = .....

(3)  $48.4 \div 4 = \dots$

(4) A circle of diameter length = 4 cm., then its radius length = ..... cm.

(5) If  $X = \{1, 2, 5, 7\}$ ,  $Y = \{1, 5, 3\}$ , then  $X \cap Y = \dots$

3 Match :

A	
(1)	
The shaded part is .....	
(2)	$\frac{1}{2}$ <input type="text"/> $\frac{1}{3}$
(3)	$4 \frac{25}{100} \simeq \dots$ (to the nearest tenth)
(4)	The probability that Samir win a match is $\frac{1}{2}$ , then the probability of loss = .....
(5)	
AD is called .....	

B	
>	
$\frac{1}{2}$	
$X \cap Y$	
altitude	
4.3	

# Some Schools' Examinations from Different Governorates

## 1 Cairo Governorate

East Nasr City Educational Zone  
Al-Ola Language Modern School



Answer the following questions :

### 1 Choose the correct answer :

(1)  $22.22 \div 2 = \dots$  (11.11 or 10.01 or 22.22 or 1.111)

(2)  $\{2, 3, 6, 12\} \cap$  the set of factors of the number 6 = .....

( {2, 3, 12, 6} or {3, 6} or {4, 6} or {2, 3, 6} )

(3)  $1\frac{1}{2} \div \frac{1}{4} = \dots$  (2 or 6 or 12 or  $\frac{3}{8}$ )

(4) If the probability of pupil's success is  $\frac{8}{10}$ , then the probability of his failure is ..... ( $\frac{1}{8}$  or  $\frac{3}{10}$  or  $\frac{1}{5}$  or 1)

(5)  $8.25 \div 8 \approx \dots$  (to the nearest tenth) (101 or 1 or 1.01 or 10.1)

(6) The longest chord in a circle is called a ..... (chord or radius or tangent or diameter)

(7) 5 hours + 29 minutes + 60 seconds = ..... hours.

(5 or 5.3 or  $5\frac{1}{2}$  or 6)

(8) If  $\{7, 10\} \subset \{10, x+3\}$ , then  $x = \dots$  (3 or 4 or 5 or 10)

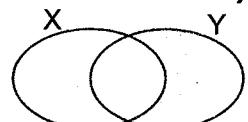
(9) The smallest fraction in the following is ..... ( $\frac{1}{3}$  or  $\frac{5}{8}$  or  $\frac{2}{9}$  or  $\frac{2}{5}$ )

(10)  $\frac{1}{25} \times 50 \times 0.25 = \dots$  (4 or  $\frac{1}{4}$  or  $\frac{1}{2}$  or 2)

(11)  $\frac{2}{3} \times \dots = 1$  (1 or  $\frac{1}{2}$  or 3 or  $\frac{3}{2}$ )

(12) In any triangle, the number of its altitudes = ..... (1 or 2 or 3 or 4)

(13) The shaded part represents .....



( $X \cap Y$  or  $X \cup Y$  or  $X - Y$  or  $Y - X$ )

(14)  $10 \times 4.72 \boxed{\quad} 100 \times 0.472$  ( $<$  or  $>$  or  $=$ )

### 2 Complete :

(15) If  $X = \{2, 5, 4\} \cap \{5, 3, 7\}$ , then  $1 \dots X$ .

(16) A circle is of diameter length 28 cm.  
, then its radius length = ..... cm.

(17)  $3.26 \text{ m.} = \dots \text{ km.}$

(18) The probability of the sure event is  $\dots$

(19) If  $X \subset Y$  , then  $X - Y = \dots$

(20) 3  $\dots$  the set of factors of the number 18

(21) The number of days in 254 hours equals approximately  $\dots$

(22)  $8.43 \times 0.9 = \dots \approx \dots \left( \text{to the nearest } \frac{1}{100} \right)$

**3 Answer the following :**

(23) A bag contains 5 white balls , 9 red balls and 6 black balls. All the balls are identical and equal in size. If a ball is drawn randomly. What is the probability that the drawn ball is :

[a] White ? [b] Not red ?

.....

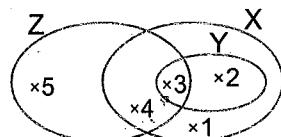
(24) Draw the triangle ABC in which  
 $AB = 3 \text{ cm.}$  ,  $BC = 4 \text{ cm.}$  and  
 $AC = 5 \text{ cm.}$  , then draw the circle M  
 whose diameter is  $\overline{AC}$

(25) The length of a piece of cloth is 9.25 m. , 12 towels are made of it and the length of towel is 0.75 m. How many metres are remainder ?

.....

(26) Use the opposite Venn diagram to write each of the following sets :

[a]  $X \cap Y = \dots$   
 [b]  $X \cup Y = \dots$   
 [c]  $Z - (X \cap Y) = \dots$



**2 Cairo Governorate**

Maadi Educational Directorate  
Victory College Maadi



Answer the following questions :

**1 Choose the correct answer :**

( 1 )  $71.5 \div \dots = 0.715$  ( 10 or 100 or 1000 or 10000 )

(2) If  $9 \in \{3, 5, x\}$ , then  $x = \dots$  (3 or 5 or 7 or 9)

(3) The number of altitudes of any triangle = ..... (1 or 2 or 3 or 4)

(4)  $2600 \text{ gm.} \simeq \dots \text{ kg.}$  (to the nearest kg.) (2 or 3 or 4 or 6)

(5)  $2 \frac{4}{5} \boxed{\quad} 2.16$  ( $>$  or  $<$  or  $=$  or  $\leq$ )

(6) If  $X = \{1, 2\}$  and  $Y = \{5\}$ , then  $X \cup Y = \dots$  ( $\{1, 2, 5\}$  or  $\{1, 5\}$  or  $\emptyset$  or  $\{2\}$ )

(7)  $55 \dots \{5, 505\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

**2** Choose the correct answer :

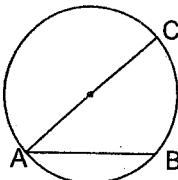
(1)  $5.037 \simeq \dots$  (to the nearest  $\frac{1}{100}$ ) (5 or 5.0 or 5.03 or 5.04)

(2)  $\emptyset \dots \{2, 4, 6\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(3)  $1.8 \times 5 = \dots$  (9 or 9.5 or 1.85 or 18.5)

(4)  $98.7 \times 100 = \dots$  (9.87 or 987 or 9870 or 0.987)

(5) If  $X \subset Y$ , then  $X \cap Y = \dots$  ( $X$  or  $Y$  or  $\emptyset$  or  $X - Y$ )

(6)   $\overline{AB}$  is called ..... (radius or diameter or chord or circle)

(7)  $54.523 \simeq 54.5$  (to the nearest .....)

( $\frac{1}{1000}$  or  $\frac{1}{10}$  or  $\frac{1}{100}$  or  $\frac{1}{10000}$ )

**3** Complete :

(1) When tossing a die once, the probability of appearing an odd number = .....

(2)  $1\frac{2}{3} \times 1\frac{1}{5} = \dots$

(3) Any chord passing through the centre of the circle is called .....

(4) If  $\{2, a\} = \{7, b\}$ , then  $a = \dots$  and  $b = \dots$

(5) A circle of diameter length 3 cm., then its radius length = ..... cm.

(6)  $25.25 \div 0.25 = \dots$

(7) If  $\{3\} \subset \{x + 1, 5\}$ , then  $x = \dots$

(8)  $25.71 + 3.5 = \dots$

**4** [a] Find the result of :

$$0.675 \times 2.3 = \dots \approx \dots \text{ (to the nearest thousandth)}$$

[b] A box contains identical balls , 6 balls are white , 9 red and 4 yellow.

Find the probability that the chosen ball is :

$$(1) \text{ Red} = \dots \quad (2) \text{ Not yellow} = \dots$$

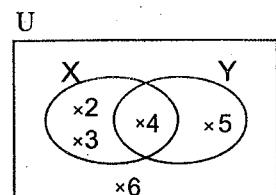
**5** [a] From the opposite figure, find :

$$(1) X \cup Y = \dots$$

$$(2) X \cap Y = \dots$$

$$(3) Y - X = \dots$$

$$(4) X' = \dots$$



[b] Draw the triangle ABC in which

$AB = BC = 6 \text{ cm.}$  and  $AC = 4 \text{ cm.}$

**3** Cairo Governorate

 El-Nozha Educational Zone  
 El-Nasr Schools


Answer the following questions :

**1** Choose the correct answer :

$$(1) 674.8 \div \dots = 67.48 \quad (100 \text{ or } 10 \text{ or } 1000 \text{ or } 10000)$$

$$(2) \text{ If } 7 \in \{2, 3, x-1\}, \text{ then } x = \dots \quad (7 \text{ or } 6 \text{ or } 8 \text{ or } 3)$$

$$(3) 3.43 \approx 3.4 \text{ is approximated to the nearest} \dots$$

$$( \text{ten or unit or } 0.01 \text{ or } \frac{1}{10} )$$

(4) The radius length of a circle equals ..... the diameter length.

$$( \text{twice or half or double or } \frac{1}{3} )$$

$$(5) 97.2 \div 9 = \dots \quad (1.8 \text{ or } 1.08 \text{ or } 10.8 \text{ or } 108)$$

(6) The altitudes of the triangle intersect at ..... point(s).

$$(1 \text{ or } 2 \text{ or } 3 \text{ or } 4)$$

$$(7) 1.2 \text{ kg.} = \dots \text{ gm.} \quad (12 \text{ or } 120 \text{ or } 1200 \text{ or } 0.012)$$

$$(8) \text{ If } \frac{2}{23} < \frac{x}{23} < \frac{4}{23}, \text{ then } x = \dots \quad (3 \text{ or } 4 \text{ or } 5 \text{ or } 6)$$

## Final Examinations

(9)  $\{5, 7, 9\} \cup \{3, 4, 5\} = \dots$

( $\{7, 9\}$  or  $\{5\}$  or  $\{3\}$  or  $\{3, 4, 5, 7, 9\}$ )

(10)  $4\frac{1}{2} \times \dots = 1$  ( $\frac{1}{2}$  or  $\frac{9}{2}$  or 2 or  $\frac{2}{9}$ )

(11) If  $\{3, 5\} = \{x, 3\}$ , then  $x = \dots$  (3 or 5 or 2 or 4)

(12)  $\frac{1}{2} \div \frac{1}{12} = \dots$  ( $\frac{1}{24}$  or 24 or 12 or 6)

(13)  $\{9, 11, 13\} - \{3, 11, 14\} = \dots$

( $\{5, 2\}$  or  $\{3\}$  or  $\{11\}$  or  $\{9, 13\}$ )

(14)  $\frac{21}{7} \dots \{1, 3, 5, 7\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\supset$ )

**2** Complete each of the following :

(15)  $\frac{2}{3} \approx \dots$  (to the nearest tenth)

(16)  $X \cap X' = \dots$

(17) If  $\frac{7}{14} = \frac{x}{2}$ , then  $x = \dots$

(18) The diameter is a ..... passing through the .....

(19)  $1.7 \times 0.04 = \dots$

(20) When tossing a coin once, then the probability of appearing a head = .....

(21) The altitudes of the obtuse-angled triangle intersect at one point ..... the triangle.

(22)  $\{1, 2, 3\} \cup \{3, 8\} = \dots$

**3** Answer the following :

(23) In a school there are 400 pupils, 173 of them are boys, the rest are girls. Find the probability of chosen pupil is girl.

.....

(24) Find a number when multiplied by 0.25, then the product is 3.25

.....

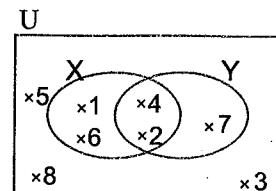
(25) Look at Venn diagram, then find :

[a]  $X - Y = \dots$

[b]  $X \cap Y = \dots$

[c]  $Y' = \dots$

[d]  $(X \cup Y)' = \dots$



(26) Draw a circle M whose radius length is 4 cm. , where  $\overline{MA}$  is a radius , then draw the chord  $\overline{AB}$  , where  $AB = 5 \text{ cm}$ . Find the type of  $\triangle AMB$  according to its side lengths.

**4**
**Cairo Governorate**

 Rod El-Farag Educational Zone  
 St. Mary's School


Answer the following questions :

**1 Choose the correct answer :**

( 1 ) If  $4 \in \{1, 2, 2x\}$  , then  $x = \dots$  ( 2 or 3 or 4 or 5 )

( 2 )  $\{7, 8\} \dots \{5, 7, 10\}$  ( $\in$  or  $\subset$  or  $\notin$  or  $\not\subset$ )

( 3 ) In any triangle, the number of its altitudes = ..... ( 1 or 2 or 3 or 4 )

( 4 ) Any chord passing through the centre of a circle is called ..... ( diameter or radius or chord or otherwise )

( 5 )  $\{32\} \dots \{3, 2\}$  ( $\in$  or  $\subset$  or  $\notin$  or  $\not\subset$ )

( 6 )  $2\frac{1}{3} \div \frac{5}{3} = \dots$  ( $\frac{7}{5}$  or  $\frac{5}{7}$  or  $\frac{3}{7}$  or  $\frac{5}{2}$ )

( 7 )  $9\frac{3}{25} \approx \dots$  (to the nearest tenth) ( 0.9 or 9.2 or 9.11 or 9.1 )

( 8 )  $\{2, 3, 6, 12\} \cap$  the set of factors of the number 6 = ..... (  $\{3, 6\}$  or  $\{4, 6\}$  or  $\{2, 3, 6\}$  or  $\{2, 3, 6, 12\}$  )

( 9 )  $4\frac{1}{8} \times 2\frac{2}{3} = \dots$  ( 1 or 10 or 11 or 111 )

(10)  $\frac{5}{8} \boxed{\quad} 0.5734$  ( $>$  or  $=$  or  $<$  or  $\leq$ )

(11)  $0.472 \times 100 \boxed{\quad} 4.72 \times 10$  ( $>$  or  $=$  or  $<$  or otherwise )

(12)  $(2\frac{1}{4} + \frac{3}{4}) \div \frac{3}{7} = \dots$  ( 2 or 5 or 7 or 20 )

**2 Complete the following :**

(13) If  $X \subset Y$  , then  $X \cap Y = \dots$

(14)  $\{2, 3, 5\} \cap \{1, 3, 5\} = \dots$

(15)  $4.86 \div 0.9 = \dots$

(16)  $\frac{3}{25} \div 0.012 = \dots$

(17) The probability of the sure event = .....

(18) The altitudes in obtuse-angled triangle intersect at the point that .....

(19)  $(7.65 - 3.4) \times 100 = \dots$

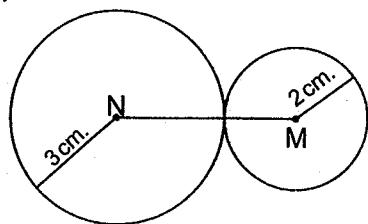
(20) If  $\{6, a, 2\} = \{b, 3, 2\}$ , then  $a = \dots$ ,  $b = \dots$

(21)  $2.345 \times 0.14 \simeq \dots$  (to the nearest hundredth)

(22) In the opposite figure :

M, N are two circles, then

MN = ..... cm.



**3 Answer the following :**

(23) A box contains 18 cards numbered from 1 to 18. Randomly a card has been selected. Calculate the probability of selecting :

[a] A prime number.

[b] A number divisible by 5

(24) If the price of one metre of cloth is L.E. 3.25, what is the cost of 2.5 metres of cloth ?

(25) If  $U = \{1, 2, 3, 4, 5, 6, 7, 8\}$

,  $X = \{1, 3, 4, 7\}$ ,  $Y = \{1, 2, 3, 6\}$

Draw a Venn diagram that represents

the sets U, X and Y and then find :  $X \cap Y$

$X \cap Y = \{ \dots \}$

(26) Draw the  $\triangle ABC$  where  $AB = 4$  cm.

,  $BC = 3$  cm. and  $CA = 5$  cm.

, then draw its altitudes.

What is the type of  $\triangle ABC$  according to its sides.

**5 Cairo Governorate**


Answer the following questions :

**1 Choose the correct answer :**

(1)  $3.75 \times 100 = \dots$  (0.375 or 375 or 3705 or 0.0375)

(2) If  $7 \in \{6, x+1\}$ , then  $x = \dots$  (6 or 7 or 8 or 5)

(3) Number of altitudes of the right-angled triangle is ..... (0 or 1 or 2 or 3)

(4)  $\{1, 3\} \cap \{2, 3\} = \dots$  ( $\emptyset$  or {3} or {1} or {1, 2, 3})

(5) 52 days  $\simeq \dots$  weeks. (6 or 8 or 7 or 5)

(6) If  $X \subset Y$ , then  $X \cap Y = \dots$  ( $X$  or  $Y$  or  $\emptyset$  or  $X$ )

(7)  $625 \div 25 = 6.25 \div \dots$  (2.5 or 0.25 or 25 or 250)

**2 Choose the correct answer :**

(8)  $\frac{1}{3} \div \frac{2}{7} = \dots$  ( $1\frac{1}{6}$  or  $\frac{6}{7}$  or  $\frac{2}{21}$  or  $\frac{13}{21}$ )

(9)  $\{7\} \dots \{3, 5, 7\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(10) 40 gm. = ..... kg. (40000 or 0.4 or 4000 or 0.04)

(11) If  $\frac{a}{8} = \frac{15}{24}$ , then  $a = \dots$  (9 or 5 or 3 or 10)

(12) Number of subsets of the set  $A = \{3, 5\}$  is ..... (4 or 3 or 2 or 1)

(13) The triangle whose measures of its angles are  $(20^\circ, 100^\circ, 60^\circ)$  is called ..... triangle.  
 (acute-angled or right angled or obtuse-angled or isosceles)

(14) If  $\frac{5}{7} < \frac{x}{7} < 1$ , then  $x = \dots$  (4 or 5 or 6 or 7)

**3 Complete each of the following :**

(15)  $12.34 + 15.172 = \dots \simeq \dots$  (to the nearest hundredth)

(16)  $\{1, 2, 4\} - \{2, 4, 6\} = \dots$

(17) The probability of the certain event is .....

(18) The radius length of a circle whose its diameter length is 5 cm. is ..... cm.

(19) If  $\{2, x\} = \{5, y\}$ , then  $x = \dots$ ,  $y = \dots$

(20) The longest chord in the circle is called .....

(21)  $4.7896 \approx \dots$  (to the nearest thousandth)

(22)  $8855 \div 253 = \dots$

**4 Answer the following :**

(23) Arrange in an ascending order :

$0.6$  ,  $\frac{3}{4}$  ,  $\frac{1}{2}$  and  $\frac{2}{3}$

The order is : ..... , ..... , ..... and .....

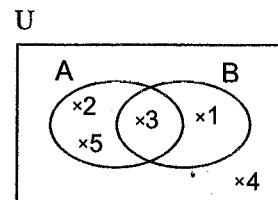
(24) By using the opposite figure , find :

[a]  $A \cup B = \dots$  [b]  $\bar{A} = \dots$

(25) A die tossed once , find the probability of getting :

[a] An even number.

[b] A number divisible by 3



(26) Draw  $\Delta ABC$  where

$BC = 8$  cm. ,  $AB = AC = 5$  cm.

**6 Cairo Governorate**

Western Cairo Educational Zone  
Mathematics Inspection



Answer the following questions :

**1 Choose the correct answer :**

( 1 )  $3.36 \text{ km.} = \dots \text{ m.}$  ( 3.306 or 33.6 or 336 or 3360 )

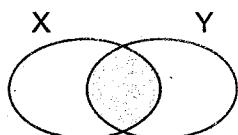
( 2 )  $52.241 \times 100 = \dots$

( 522.41 or 52241 or 5224.1 or 522410 )

( 3 )  $\{52\} \dots \{5, 2\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

( 4 )  $\frac{5}{8} \boxed{\quad} 0.5734$  ( $<$  or  $>$  or  $=$  or otherwise)

( 5 ) The shaded part .....



(  $X \cap Y$  or  $X \cup Y$  or  $X - Y$  or  $X \subset Y$  )

( 6 ) A circle , its radius length = 1 cm. , then its diameter length = ..... cm.

( 1 or 2 or 3 or 4 )

( 7 )  $\frac{1}{3} \times \frac{3}{4} = \dots$  ( $\frac{1}{3}$  or  $\frac{1}{2}$  or  $\frac{1}{4}$  or  $\frac{4}{12}$  )

( 8 ) If  $3 \in \{x + 1, 5\}$  , then  $x = \dots$  ( 1 or 2 or 3 or 4 )

( 9 )  $\frac{4}{12} \div \frac{6}{12} = \dots$  ( $\frac{2}{3}$  or  $\frac{4}{3}$  or  $\frac{1}{12}$  or  $\frac{4}{12}$  )

(10)  $\{1, 3, 4\} - \{3, 4\} = \dots$  ( {1} or {3} or {4} or {3, 4} )

(11) If  $a \in X$  , then  $a \dots X$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(12) The right-angled triangle has ..... altitudes. ( 1 or 2 or 3 or 4 )

(13) If  $\frac{2}{3} = \frac{a}{12}$  , then  $a = \dots$  ( 3 or 4 or 8 or 12 )

(14)  $46.762 \simeq \dots$  (to the nearest hundredth)

( 46.762 or 46.8 or 47 or 46.76 )

**2** Complete the following :

( 1 ) The probability of the certain event = .....

( 2 ) All the radii of the circle are .....

( 3 )  $3978 \div \dots = 3.978$

( 4 )  $84.61 + 23.473 = \dots$

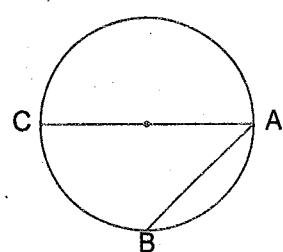
( 5 )  $\emptyset \dots \{0\}$

( 6 ) In the opposite figure :

$\overline{AB}$  is called ..... of the circle.

( 7 ) The set of the digits of the number 7353 is .....

( 8 )  $2.64 \times 0.2 = \dots$



**3 Answer the following :**

( 1 ) A box contains identical balls where 6 balls are white , 9 red balls and 5 black balls. If one ball is chosen randomly , what is the probability that the chosen ball is white ?

.....

( 2 ) Arrange in a descending order :

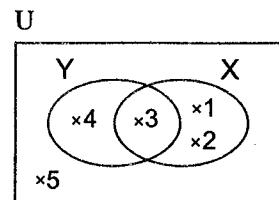
$4.5$  ,  $4\frac{1}{4}$  ,  $5\frac{3}{4}$  and  $5\frac{1}{2}$

The order is : ..... , ..... , ..... and .....

( 3 ) From the opposite Venn diagram , find :

[a]  $X \cup Y = \dots$

[b]  $Y = \dots$



( 4 ) Draw the triangle ABC in which

$AB = 3 \text{ cm.}$  ,  $BC = 4 \text{ cm.}$  and  $AC = 5 \text{ cm.}$

7

Giza Governorate

Al-Agoza Educational Directorate  
Baby Palace Private School



Answer the following questions :

**1 Choose the correct answer :**

( 1 )  $9\frac{3}{25} \approx \dots$  (to the nearest tenth) ( 0.9 or 9.2 or 9.1 or 9 )

( 2 )  $1\frac{1}{8} \div 1\frac{1}{8} = \dots$  ( 1 or 10 or 11 or 111 )

( 3 )  $\frac{2}{3} \times \dots = 1$  ( 1 or 2 or 3 or  $\frac{3}{2}$  )

( 4 )  $\frac{5}{8} \boxed{\quad} 0.5734$  ( $>$  or  $<$  or  $=$  or  $\leq$ )

( 5 ) 43 days  $\simeq \dots$  weeks (to the nearest week) ( 4 or 5 or 6 or 7 )

( 6 )  $4.6 \div 4.6 \boxed{\quad} 0.1$  ( $>$  or  $<$  or  $\leq$  or  $=$ )

( 7 ) The smallest number of the following numbers is .....

( 0.111 or 0.12 or 0.123 or 1.0123 )

( 8 ) If  $4 \in \{3, 5, x\}$  , then  $x = \dots$  ( 3 or 4 or 5 or 6 )

( 9 ) The suitable symbol represents the shaded part in the shape is .....



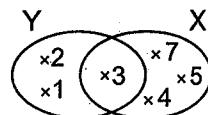
(  $X \cap Y$  or  $X \cup Y$  or  $Y \subset X$  or  $X \subset Y$  )

(10) {50} ..... {2 , 5}

(  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

(11) In the opposite figure :

$$Y \cap X = \dots$$



( {7 , 5 , 4} or {1 , 2} or {3} or {1 , 2 , 3} )

(12) If X is the set of odd numbers , then 36 ..... X

(  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

(13) The number of altitudes of an acute-angled triangle is .....

( 1 or 2 or 3 or 4 )

(14) The triangle whose measures of its angles are  $(50^\circ , 90^\circ , 40^\circ)$  is called ..... triangle.

( an acute-angled or an obtuse-angled or a right-angled or otherwise )

**2 Complete :**

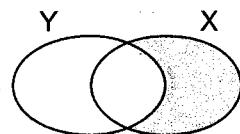
( 1 ) If  $\frac{b}{8} = \frac{15}{24}$  , then b = .....

( 2 )  $3978 \div \dots = 3.978$

( 3 ) The number  $4.7398 \simeq \dots$  (to the nearest hundredth)

( 4 ) If X , Y are two sets ,  $X \subset Y$  , then  $X \cap Y = \dots$

( 5 ) The shaded part in the opposite figure represents .....



( 6 ) Length of diameter of the circle whose radius length is 1 cm.

$$= \dots \text{ cm.}$$

( 7 ) The longest chord in the circle is the .....

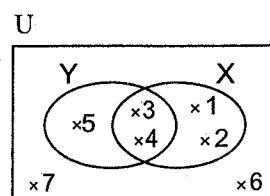
( 8 ) The probability of appearing a head when tossing a coin once = .....

**3 Answer the following :**

( 1 ) Find :  $1.775 \times 0.15 = \dots$

( 2 ) In the opposite figure , complete :

$$[a] X \cap Y = \dots \quad [b] X = \dots$$



( 3 ) In tossing a fair die once , then complete :

[a] Probability of appearing an odd number = .....

[b] Probability of appearing a number greater than 6 = .....

8

Giza Governorate

 El-Haram Zone  
 Al-Mostakbal Modern Language School


Answer the following questions :

1 Choose the correct answer :

( 1 )  $32.5 \div 100 =$  ..... ( 0.32 or 0.325 or 3250 or 325.2 )

( 2 )  $5.035 \approx$  ..... (to the nearest hundredth)  
 ( 5.03 or 500 or 5.04 or 5.3 )

( 3 ) If  $X \subset Y$  , then  $X \cap Y =$  ..... ( X or Y or U or  $X^c$  )

( 4 )  $327.5 \times 100 =$  ..... ( 3276 or 32750 or 3.275 or 327500 )

( 5 )  $\emptyset \dots \{6, 8\}$  ..... (  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

( 6 )  $\frac{1}{2} \boxed{\quad} \frac{1}{3}$  ..... (  $<$  or  $=$  or  $>$  or  $\leq$  )

( 7 ) The altitudes of the obtuse-angled triangle intersect at one point .....  
 the triangle. ..... ( inside or on or outside )

( 8 )  $0.4 \times 0.2 =$  ..... ( 8.00 or 0.08 or 0.8 or 0.042 )

( 9 )  $\frac{2}{5} \div \frac{1}{4} =$  ..... (  $\frac{5}{8}$  or  $\frac{6}{5}$  or  $\frac{8}{5}$  or  $\frac{2}{3}$  )

(10)  $6 \dots \{7, 6, 8\}$  ..... (  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

(11) The length of the longest chord is 6 cm. , then the length of the radius  
 of the circle = ..... cm. ..... ( 6 or 12 or 4.5 or 3 )

(12) The set  $\{1, 3, 5, \dots\}$  is ..... set.  
 ( a finite or an infinite or an empty )

(13)  $37440 \div 234 =$  ..... ( 16 or 106 or 160 or 1600 )

(14)  $\frac{4}{5} \times \frac{1}{3} =$  ..... (  $\frac{1}{2}$  or  $\frac{12}{5}$  or  $\frac{4}{15}$  or  $\frac{5}{8}$  )

2 Complete the following :

( 1 ) If  $\{5, x\} = \{7, y\}$  , then  $x =$  ..... and  $y =$  .....

( 2 ) The probability of the impossible event is .....

( 3 ) The longest chord in the circle is called .....

( 4 )  $76.25 \div 10 = \dots \simeq \dots$  (to the nearest hundredth)

( 5 ) The number of altitudes of any triangle is .....

( 6 )  $\frac{4}{12} \div \frac{5}{12} = \dots$

( 7 ) If  $X = \{2, 3, 5\}$  and  $Y = \{3\}$  , then  $X \cap Y = \dots$

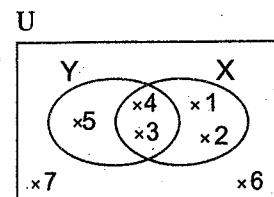
( 8 )  $9282 \div 221 = \dots$

**3** Answer the following :

( 1 ) Use the opposite Venn diagram to find :

[a]  $X \cap Y = \dots$

[b]  $\bar{Y} = \dots$



( 2 ) A box contains 3 white balls , 7 red balls and 5 yellow balls , one ball is chosen randomly. Find the probability of choosing :

[a] Red ball = ..... [b] Green ball = .....

( 3 ) If the price of one metre of cloth is 6.45 pounds , what is the price of 2 metres ?

.....

( 4 ) Draw the circle M of radius length 4 cm.

, then draw the diameter  $\overline{AB}$  and the chord  $\overline{AC} = 5$  cm.

**9 Giza Governorate**


Answer the following questions :

**1 Choose the correct answer :**

( 1 )  $3.75 \times 100 = \dots$  ( 0.375 or 37.5 or 375 or 0.0375 )

( 2 )  $\frac{1}{2} \boxed{\quad} 0.3$  ( $>$  or  $<$  or  $=$ )

( 3 ) If  $\frac{1}{2} = \frac{x}{8}$ , then  $x = \dots$  ( 1 or 3 or 4 or 5 )

( 4 )  $1\frac{2}{3} \times 1\frac{1}{5} = \dots$  ( $2\frac{3}{8}$  or 2 or  $1\frac{7}{18}$  or  $\frac{13}{15}$ )

( 5 )  $31.294 \approx 31.3$  (to the nearest .....)  
 ( tenth or hundredth or thousandth or unit )

( 6 ) The smallest prime number is ..... ( 1 or 2 or 3 or 0 )

( 7 )  $\frac{2}{5} \div \frac{7}{5} = \dots$  ( $\frac{14}{25}$  or  $\frac{2}{7}$  or  $\frac{7}{2}$  or 2 )

( 8 ) If  $X \subset Y$ , then  $X \cap Y = \dots$  ( X or Y or  $\emptyset$  )

( 9 )  $\emptyset \dots \{2, 6, 1, 5\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(10) The set of odd numbers is ..... set.  
 ( a finite or an empty or an infinite or equal )

(11) If  $\{5, 7\} \subset \{x + 2, 5\}$ , then  $x = \dots$  ( 2 or 5 or 7 or 3 )

(12)  $9 \dots \{19, 9\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(13) If the length of the longest chord in a circle is 13 cm., then the length of any radius = ..... cm. ( 26 or 6 or 6.5 or 11 )

(14) The altitudes of the acute-angled triangle intersect at one point ..... the triangle. ( inside or outside or at the vertex of right angle )

**2 Complete :**

( 1 )  $538.2 + 23.4 = \dots$

( 2 )  $2.3532 \approx \dots$  (approximate to the nearest  $\frac{1}{1000}$ )

( 3 )  $18.8 \div 1000 = \dots$

( 4 ) All the radii of the circle are ..... in length.

( 5 ) The number of altitudes of right-angled triangle is .....

( 6 )  $\{2, 3, 5\} \cap \{2, 3, 4\} = \dots$

( 7 ) All the subsets of the set  $\{2, 3\}$  are ..... , ..... , ..... and .....

( 8 ) When tossing a coin once , the probability of appearing a head = .....

**3** Answer the following :

( 1 ) If the price of one metre of cloth is L.E. 45.5 What is the price of 3.5 metres ?

.....

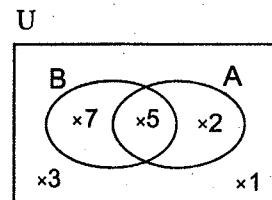
( 2 ) By using the opposite Venn diagram , find :

[a]  $A \cap B =$  .....

[b]  $A \cup B =$  .....

[c]  $A - B =$  .....

[d]  $\bar{A} =$  .....



( 3 ) A bag contains 5 red balls , 8 black balls and 6 white balls , all of them are identical and equal in size. A ball is drawn randomly calculate the probability that :

[a] The drawn ball is black = .....

[b] The drawn ball isn't green = .....

( 4 ) Draw  $\triangle ABC$  in which  $AB = BC = CA = 5$  cm.  
 , then draw the altitude from A on  $\overline{BC}$

**10** Alexandria Governorate

Mid Educational Zone  
 Mathematics Inspection



Answer the following questions :

**1** Choose the correct answer :

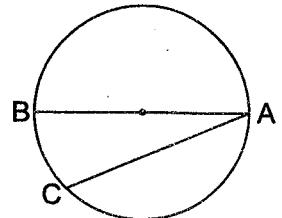
( 1 )  $\{5, 2\} \dots \{52\}$

$(\in \text{ or } \notin \text{ or } \subset \text{ or } \not\subset)$

(2)  $28.61 \times \dots = 28610$  (10 or 100 or 1000 or 10000)  
 (3)  $\frac{1}{2} \div \frac{9}{4} = \dots$  (in the simplest form) ( $\frac{9}{8}$  or  $\frac{9}{2}$  or  $\frac{2}{9}$  or 1)  
 (4)  $\emptyset \dots \{0\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(5) In the opposite figure :

$\overline{AC}$  is called .....



(radius or diameter or centre or chord)

(6)  $4812 \div 1000 \boxed{\quad} 0.4812 \times 100$  ( $<$  or  $>$  or  $=$  or  $\geq$ )

(7)  $42.395 + 53.31 \simeq \dots$  (to the nearest  $\frac{1}{100}$ )  
 (95.705 or 95.70 or 95.71 or 95.72)

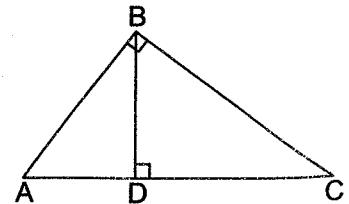
(8) If  $5 \in \{x + 3, 7\}$ , then  $x = \dots$  (2 or 3 or 4 or 5)

(9)  $25.25 \div 0.25 = \dots$  (10.1 or 11 or 1.01 or 101)

(10) In the opposite figure :

ABC is right-angled triangle at B

The point of intersection of its altitudes is .....



(A or B or C or D)

(11) 23 ..... the set of prime numbers. ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(12)  $\frac{5}{9} \times \frac{9}{25} = \dots$  ( $\frac{5}{3}$  or  $\frac{3}{5}$  or  $\frac{1}{5}$  or  $\frac{45}{25}$ )

(13) If  $X \subset Y$ , then  $X \cap Y = \dots$  ( $X$  or  $Y$  or  $\emptyset$  or  $\bar{Y}$ )

(14) 5675 grams  $\simeq \dots$  kilograms. (5 or 6 or 56 or 57)

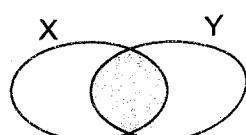
2 Complete :

(1) If  $\frac{x}{8} = \frac{15}{24}$ , then  $x = \dots$

(2)  $2.7 \times 0.4 = \dots$

(3) The probability of the sure (certain) event = .....

(4) The shaded part in the opposite figure represents .....



(5) The altitudes of the obtuse-angled triangle intersect in a point lies ..... the triangle.

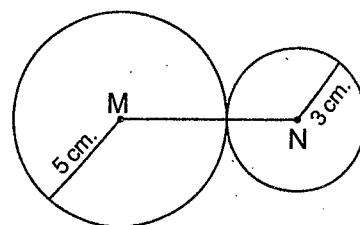
( 6 )  $62.345 + 15.632 = \dots \simeq \dots$  (to the nearest tenth)

( 7 )  $\{3, 7, 2, 5\} - \{4, 2, 5, 6\} = \dots$

( 8 ) In the opposite figure :

M and N are two circles

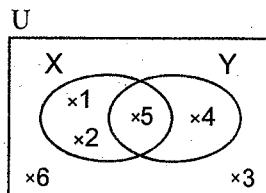
, then the length of  $\overline{MN} = \dots$  cm.



3 Answer the following :

( 1 ) An owner of packing food factory wanted to divide 5904 kg. of sugar equally in 492 packs. What is the weight of each pack ?

[a]  $X \cup Y = \dots$   
 [b]  $\overline{X} = \dots$



( 3 ) As throwing a fair die once , find the probability of appearing :

[a] An even prime number = .....

[b] A number divisible by 5 = .....

( 4 ) Draw the triangle ABC

, where  $BC = 6$  cm.

,  $AB = AC = 5$  cm.

Draw  $\overline{AD} \perp \overline{BC}$

Find the length of  $\overline{AD}$

11 Alexandria Governorate

East Educational Zone  
 Supervision of Math



Answer the following questions :

1 Choose the correct answer from those between brackets :

( 1 )  $736.592 \simeq 736.59$  (to the nearest .....

( unit or tenth or hundredth or thousandth )

**Final Examinations**

( 2 ) 3.002 kilograms = ..... grams.

( 30.02 or 300.2 or 3002 or 0.3002 )

( 3 ) If  $\frac{2}{5} = \frac{a}{15}$  , then a = ..... ( 5 or 6 or 8 or 10 )

( 4 ) A circle , its radius length = 1 cm. , then its diameter length = ..... cm.  
 ( 1 or 2 or 3 or 4 )

( 5 )  $\frac{3}{8} \boxed{\phantom{00}} 0.5$  ( $<$  or  $>$  or  $=$  or  $\geq$ )

( 6 )  $\{2\} \cup \{4\} = \dots$  ( 24 or  $\emptyset$  or  $\{2,4\}$  or 6 )

( 7 )  $1.7 \div 10 = \dots$  ( 17 or 0.17 or 170 or 0.017 )

( 8 ) The number of altitudes in any triangle = .....  
 ( 1 or 2 or 3 or 4 )

( 9 )  $37.4289 - 14.081 \approx \dots$  (to the nearest thousandth)  
 ( 23.350 or 23.348 or 23.248 or 23.347 )

(10)  $\{52\} \dots \{5,2\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(11)  $5.45 \div 0.5 = \dots$  ( 1.9 or 1.09 or 10.9 or 109 )

(12)  $98.7 \times 100 = \dots$  ( 987 or 9870 or 0.987 or 0.0987 )

(13) If  $4 \in \{2, x, 5\}$  , then  $x = \dots$  ( 2 or 4 or 5 or 6 )

(14)  $\frac{2}{7} \div \frac{5}{7} = \dots$  (  $\frac{7}{7}$  or  $\frac{10}{7}$  or  $\frac{2}{5}$  or  $\frac{5}{2}$  )

**2 Complete each of the following :**

( 1 ) 354 metres = ..... cm.

( 2 ) .....  $\div 9 = 4.5$

( 3 )  $\{5,6\} \cap \{4,5\} = \dots$

( 4 ) Tossing a regular coin once , the probability of landing a head = .....

( 5 ) The longest chord in a circle is called .....

( 6 )  $3.6 \times 1.3 = 1.3 \times \dots$

( 7 )  $3.26 \times 17 = 3.26 \times (7 + \dots)$

( 8 ) A rectangle , its length is 4.1 cm. and its width is 0.5 cm.  
 , then its area is .....  $\text{cm}^2$

**3 Answer the following :**

( 1 ) Ahmed bought 12 cans of juice. The price of each can was L.E. 1.75

What is the total cost of juice ?

The total cost of juice = .....

( 2 ) Arrange the following numbers in an ascending order :

$$\frac{3}{2}, \frac{3}{5}, \frac{3}{8} \text{ and } \frac{3}{4}$$

The order is : ..... , ..... , ..... and .....

( 3 ) Draw a triangle ABC in which

$$AB = 4 \text{ cm.}, BC = 5 \text{ cm.}, AC = 6 \text{ cm.}$$

( 4 ) If the probability of a pupil succeed in an exam is  $\frac{8}{10}$ ,  
find the probability of his fail.

The probability of his fail = .....

12

El-Kalyoubia Governorate

Directorate of Education Zone  
Maths Supervision



Answer the following questions :

1 Choose the correct answer :

$$(1) 3.75 \times 1000 = \dots \quad (0.375 \text{ or } 0.0375 \text{ or } 3750 \text{ or } 37.5)$$

$$(2) \text{ If } \frac{x}{8} = \frac{15}{24}, \text{ then } x = \dots \quad (2 \text{ or } 3 \text{ or } 4 \text{ or } 5)$$

$$(3) \text{ The number of altitudes in the right-angled triangle} = \dots \quad (0 \text{ or } 1 \text{ or } 3 \text{ or } 2)$$

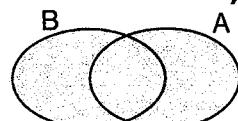
$$(4) 2\frac{1}{8} \div \frac{1}{8} = \dots \quad (17 \text{ or } 16 \text{ or } 8 \text{ or } 18)$$

$$(5) \text{ If } 5 \in \{7, 9, x, 4\}, \text{ then } x = \dots \quad (4 \text{ or } 5 \text{ or } 6 \text{ or } 8)$$

$$(6) 4.2 \text{ dm.} = \dots \quad (0.42 \text{ cm. or } 420 \text{ cm. or } 42 \text{ cm. or } 4200 \text{ cm.})$$

$$(7) 43 \text{ days} \simeq \dots \text{ weeks.} \quad (4 \text{ or } 5 \text{ or } 6 \text{ or } 7)$$

(8) The shaded part in Venn diagram represents .....



$$(A \cap B \text{ or } A - B \text{ or } A^c \text{ or } A \cup B)$$

$$(9) 3.36 \text{ km.} = \dots \text{ m.} \quad (3360 \text{ or } 336 \text{ or } 3630 \text{ or } 33600)$$

(10) If M is a circle whose diameter length is 8 cm. where A is a point and  $MA = 8 \text{ cm.}$ , then the point A is located ..... the circle.

(inside or outside or on or on the centre)

(11)  $\frac{3}{5}$   0.06 ( $<$  or  $>$  or  $=$  or  $\leq$ )

(12)  $9\frac{3}{25} = \dots$  (to the nearest tenth) (9 or 9.2 or 9.13 or 9.1)

(13)  $\{5, 4\} - \{7, 9, 8, 4\} = \dots$

({5} or {7, 9, 4} or {7, 8, 4} or {9, 5, 8, 4})

(14) For any set A and its complement  $A^c$ , then  $A \cup A^c = \dots$

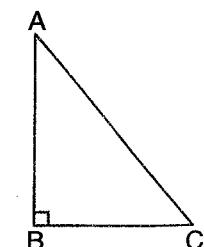
(A or  $A^c$  or U or  $A \cap A^c$ )

**2 Complete the following :**

(1)  $4\frac{1}{8} \times 2\frac{2}{3} = \dots$

(2) In the opposite figure :

The corresponding height  
to the base  $\overline{BC}$  is .....



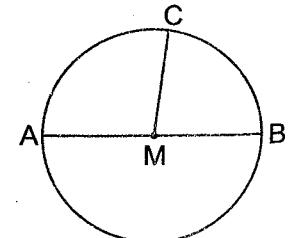
(3)  $\frac{3}{25} \div \dots = \frac{3}{25}$

(4) The probability of the certain event = .....

(5) If  $Y = \{2, 9, 6\} \cap \{1, 2, 4\}$ , then  $6 \dots Y$

(6) In the opposite figure :

$\overline{AB}$  is called .....



(7) If  $X \subset Y$ , then  $X \cup Y = \dots$

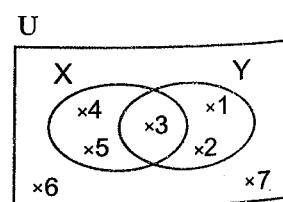
(8)  $3978 \div \dots = 3.978$

**3 Answer the following :**

(1) Look at the opposite Venn diagram, then find :

[a]  $X \cap Y = \dots$

[b]  $(X \cup Y)^c = \dots$



(2) Find with steps :

[a]  $21.6 \div 1.2 = \dots \div \dots = \dots$

[b]  $5\frac{1}{2} \div 3\frac{2}{3} = \dots \div \dots = \dots$

(3) A bag contains 5 white marbles, 7 black marbles and 3 red marbles, randomly one marble is selected, find :

[a] The probability of selecting a black marble = .....

[b] The probability of selecting a white or red marble = .....

( 4 ) Draw the triangle ABC where  $AB = 4$  cm.  
 $, BC = 6$  cm. and  $CA = 8$  cm.

Then draw a circle its centre is B and its radius length is 4 cm.

## 13 El-Sharkia Governorate

 Menia El-Qamh Educational Zone  
 Mathematics Inspection


Answer the following questions :

### 1 Choose the correct answer :

( 1 )  $4 \dots \{5, 4, 32\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

( 2 )  $402.5 \times 100 = \dots$  ( $40.25$  or  $4.025$  or  $40250$  or  $4025$ )

( 3 )  $\frac{1}{8} \simeq \dots$  (to the nearest hundredth) ( $0.125$  or  $0.12$  or  $0.13$  or  $0.1$ )

( 4 )  $5.63$  km. = ..... m. ( $5.63$  or  $5630$  or  $563$  or  $56.3$ )

( 5 )  $\emptyset \dots \{0\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

( 6 ) Every triangle has ..... altitudes. ( $1$  or  $2$  or  $3$  or  $4$ )

( 7 ) If  $X \subset Y$ , then  $X \cap Y = \dots$  ( $U$  or  $X$  or  $Y$  or  $\emptyset$ )

( 8 ) The chord which passes through the centre of a circle is called .....  
 ( diameter or radius or centre or side )

( 9 ) When tossing a coin once the probability of appearing a tail = .....  
 (  $1$  or  $\frac{1}{2}$  or  $\frac{1}{3}$  or  $\frac{1}{6}$  )

(10)  $255 \div 25 = 2.55 \div \dots$  ( $2.5$  or  $0.25$  or  $25$  or  $2500$ )

(11)  $40$  days  $\simeq \dots$  weeks. ( $4$  or  $6$  or  $5$  or  $7$ )

(12)  $4 \frac{1}{8} \times 2 \frac{2}{3} = \dots$  ( $1$  or  $10$  or  $11$  or  $111$ )

(13) If  $\{5, 7\} = \{7, x + 3\}$ , then  $x = \dots$  ( $3$  or  $5$  or  $2$  or  $1$ )

(14)  $\frac{1}{2} \boxed{\quad} \frac{1}{3}$  ( $<$  or  $>$  or  $=$ )

### 2 Complete :

(15)  $\frac{2}{3} \times \dots = 1$

(16) If  $\frac{x}{8} = \frac{15}{24}$ , then  $x = \dots$

(17) The probability of the sure event = .....

(18) A circle which its diameter length is 10 cm. , the length of its radius is ..... cm.

(19)  $806.7 \div 100 =$  .....

(20) If  $5 \in \{3, 4, x\}$  , then  $x =$  .....

(21)  $\{4, 7\} \cap \{2, 7\} =$  .....

(22) The longest chord in a circle is called .....

**3 Answer the following :**

(23) If the price of piece of sweet is 2.25 pounds, what is the price of 25 pieces of the same kind ?

.....

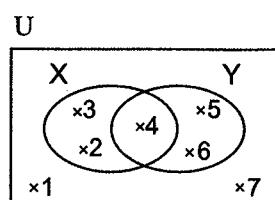
(24) Using the opposite Venn diagram , find :

[a]  $X \cap Y =$  .....

[b]  $X \cup Y =$  .....

[c]  $X - Y =$  .....

[d]  $Y^c =$  .....



(25) A box contains 5 blue balls , 2 red balls , 4 white balls.

Find the probability of getting :

[a] A white ball = .....

[b] A red ball = .....

(26) Draw the triangle ABC where

$AB = 3 \text{ cm.}$  ,  $BC = 4 \text{ cm.}$  and  $AC = 5 \text{ cm.}$

**14**

**El-Gharbia Governorate**

El-Gharbia Educational Directorate  
Math's Supervision



Answer the following questions :

**1 Choose the correct answer :**

( 1 )  $2586.3 \div 100 =$  .....

( 25.863 or 258.63 or 2586.3 or 0.25863 )

( 2 )  $2.25 \div 1.5 = \dots$  ( 105 or 1.5 or 15 or 0.15 )

( 3 )  $X \cap \emptyset = \dots$  ( zero or X or  $\emptyset$  or {0} )

( 4 ) The altitudes of the triangle intersect at .....  
 ( one point or two points or three points or four points )

( 5 )  $6.85 \times 1000 = \dots$  ( 68.50 or 685 or 6850 or 685000 )

( 6 ) The probability of the impossible event = .....  
 ( 0 or 1 or 0.5 or  $\emptyset$  )

( 7 ) If  $\{4, x+2\} = \{7, 4\}$ , then  $x = \dots$  ( 4 or 5 or 7 or 9 )

( 8 ) The longest chord in the circle is called .....  
 ( radius or centre or side or diameter )

( 9 )  $255 \div 25 = 2.55 \div \dots$  ( 25 or 0.25 or 2.5 or 2500 )

( 10 ) 5.6 tons = ..... kg. ( 5600 or 650 or 2.5 or 2500 )

( 11 ) 8 .....  $\{7, 5, 8\}$  (  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

( 12 )  $\emptyset$  .....  $\{0, 1, 3\}$  (  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

( 13 ) 12 ..... the set of days of the week. (  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

( 14 ) 10 halves  20 fifths. (  $\leq$  or  $>$  or  $<$  or  $=$  )

**2** Complete the following :

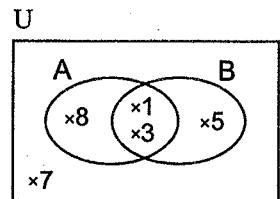
( 1 ) The diameter of a circle is a chord that crosses the .....  
 ( 2 )  $\{1, 2\} \cup \{2, 3\} = \dots$   
 ( 3 )  $\{5, 7\} - \{1, 2\} = \dots$   
 ( 4 ) 4 tens  $\div$  8 tenths = .....  
 ( 5 ) If  $X \cap Y = \emptyset$ , then X and Y are .....  
 ( 6 ) The probability of the sure event = .....  
 ( 7 )  $5.766 \simeq \dots$  ( to the nearest  $\frac{1}{100}$  )  
 ( 8 )  $66.7 \div 1000 = \dots$

**3** Answer the following :

( 1 )  $7.4 \times 2.2 = \dots$   
 ( 2 )  $12474 \div 231 = \dots$  ( show the steps )

( 3 ) Using the opposite Venn diagram , find :

[a]  $A \cup B = \dots$  [b]  $A \cap B = \dots$   
 [c]  $B - A = \dots$  [d]  $\bar{B} = \dots$



( 4 ) Draw the triangle ABC in which

$AB = BC = CA = 6 \text{ cm.}$  , then

draw  $\overline{AD} \perp \overline{BC}$  , then

find the length  $\overline{BD}$  and  $m(\angle B)$

( 5 ) A bag contains 5 white balls , 9 red balls and 6 black balls , all the

balls are identical and equal in size , if a ball is drawn randomly.

What is the probability that the drawn ball is :

[a] White ? [b] Not white ?  
 [c] White or red ?

15

El-Dakahlia Governorate

 Mathematics Supervision  
 Math Department


Answer the following questions :

1 Choose the correct answer :

( 1 )  $0.23 \times 1.9 \square 0.019 \times 23$  ( $< \text{ or } > \text{ or } = \text{ or } \neq$ )

( 2 ) If  $X \subset Y$  , then  $X \cup Y = \dots$  ( $X \text{ or } Y \text{ or } U \text{ or } \emptyset$ )

( 3 )  $32.683 \simeq \dots$  (to the nearest 0.01)

( 23.68 or 32.69 or 32.7 or 32.68 )

( 4 ) If  $\{a, 3, 5\} = \{b, 5, 2\}$  , then  $a + b = \dots$

( 2 or 3 or 5 or 8 )

( 5 ) ..... is used for drawing a circle.

( Set square or Ruler or Compasses or Protractor )

( 6 ) ..... is a chord passing through the centre of circle.

( Radius or Chord or Diameter or Centre )

( 7 ) If A and B are disjoint sets , then  $A - B = \dots$

(  $\emptyset$  or A or B or U )

( 8 ) 39 days  $\simeq \dots$  weeks.

( 5 or 6 or 7 or 8 )

(9)  $\{1, 2, 3\} \dots \{1, 2\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(10) The number of altitudes in the acute-angled triangle is ..... (0 or 1 or 2 or 3)

(11)  $1.92 \div \dots = 0.0192$  (10 or 100 or 1000 or 10000)

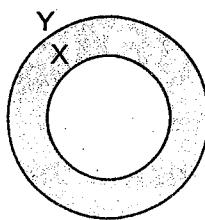
(12)  $\frac{2}{3} \times \dots = 1$  ( $\frac{2}{3}$  or 1 or  $\frac{3}{2}$  or 2.3)

(13)  $355 \div 18 = 3.55 \div \dots$  (1.8 or 0.18 or 18 or 1800)

(14)  $\bar{A} = \dots$  (U-A or A or B or  $\emptyset$ )

**2 Complete :**

(1) The shaded part represents .....



(2)  $245 \text{ dm.} = \dots \text{ m.}$

(3) If M is the centre of a circle

,  $\overline{AB}$  is a chord such that  $M \in \overline{AB}$  , then  $\overline{AB}$  is called .....

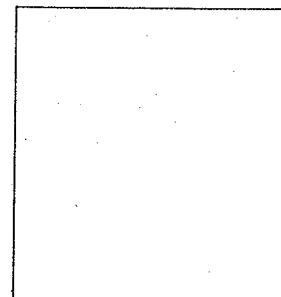
(4)  $5904 \div 492 = \dots$  (show steps in the rectangle).

(5) The probability of the certain event = .....

(6)  $2\frac{2}{3} \div \frac{4}{3} = \dots$

(7)  $\{2, 4, 5\} \cap \{0, 2, 4\} = \dots$

(8) Radius length of a circle = .....  $\times$  diameter length.



**3 Answer the following :**

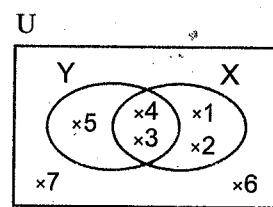
(1) If the length of a rectangle is 2.65 cm. and its width 1.5 cm.  
 Calculate its area to the nearest tenth.

.....

(2) From the opposite figure , complete :

[a]  $X \cup Y = \dots$  [b]  $X \cap Y = \dots$

[c]  $X - Y = \dots$  [d]  $(X \cup Y)^c = \dots$



(3) A card has been drawn randomly out of 10 cards numbered from 1 to 10 , find the probability of getting :

[a] An odd number = .....

[b] A prime number = .....

[c] An even number between 4 and 6 = .....

[d] A factor of the number 9 = .....

(26) Draw a circle M of radius length 2.5 cm.

and draw  $\overline{MA}$  as a radius , then complete the equilateral triangle MAB , then find the perimeter of the triangle.

The perimeter = .....

**16**
**Ismailia Governorate**

 Directorate of Education  
 24<sup>th</sup> October G.L.S.


Answer the following questions :

**1** Choose the correct answer :

( 1 )  $736.592 \approx 736.59$  (to the nearest .....

( unit or tenth or hundredth or thousandth )

( 2 ) The number of altitudes of any triangle is ..... ( 1 or 2 or 3 or 4 )

( 3 )  $X \cap X = \dots$  (  $X$  or  $\emptyset$  or  $U$  or  $\emptyset$  )

( 4 )  $37.4289 - 14.081 \approx \dots$  (to the nearest  $\frac{1}{1000}$  )

( 23.349 or 23.350 or 23.348 or 23.248 )

( 5 )  $5.748 \times 100 = \dots$  ( 57.48 or 0.5748 or 574.8 or 5748 )

( 6 )  $4 \dots \{2, 5\}$  (  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

( 7 )  $\frac{4}{7} \boxed{\quad} \frac{5}{9}$  (  $<$  or  $=$  or  $>$  )

( 8 )  $3.36 \text{ km.} = \dots \text{ m.}$  ( 3.36 or 33.6 or 336 or 3360 )

( 9 )  $0.06 \times 0.3 = \dots$  ( 18 or 0.018 or 0.18 or 0.09 )

(10) The chord which passes through the centre of a circle is called .....

( diameter or radius or centre or side )

(11) If  $\{4, 8\} = \{1 + y, 4\}$  , then  $y = \dots$  ( 3 or 4 or 6 or 7 )

(12)  $2.125 \div 0.25 = \dots \div 25$

( 212.5 or 21.25 or 2125 or 21250 )

(13) The set of odd numbers is ..... set.

( a finite or an empty or an infinite )

(14) If  $X \subset Y$  , then  $X - Y = \dots$

(  $X$  or  $\emptyset$  or  $Y$  )

**2 Complete :**

(15) The probability of the impossible event = .....

(16) .....  $\times 2\frac{1}{2} = 1$

(17)  $\emptyset \dots \{8, 10\}$

(18)  $3\frac{1}{4} \div \frac{1}{4} = \dots$

(19)  $5 \dots \{7, 5, 3\}$

(20) To draw a circle with diameter length 8 cm. , we open the compasses ..... cm.

(21)  $5\frac{2}{3} \times \frac{3}{17} = \dots$

(22) If ABC is an equilateral triangle of side length 4 cm. , then its perimeter = ..... cm.

**3 Answer the following :**

(23) Arrange in an ascending order :

$$3\frac{1}{4}, 3.3, 3.125 \text{ and } 3\frac{1}{2}$$

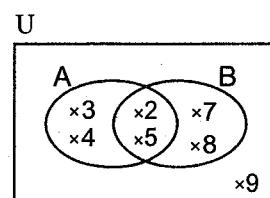
(24) From the opposite Venn diagram , find :

[a]  $A \cup B = \dots$

[b]  $A \cap B = \dots$

[c]  $A - B = \dots$

[d]  $B - A = \dots$



(25) Draw ABC isosceles triangle in which

$$AB = AC = 5 \text{ cm.}, BC = 6 \text{ cm.}$$

and draw  $\overline{AD} \perp \overline{BC}$  , then find by

measuring the length of  $\overline{AD}$

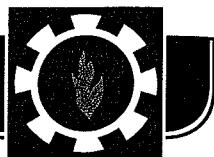
(26) A box contains 5 white balls , 4 blue balls and 2 red balls , find the probability of getting :

[a] A blue ball = .....

[b] A red ball = .....

**17** Suez Governorate

Maths Inspectorate



Answer the following questions :

**1** Choose the correct answer :
( 1 )  $2.45 \text{ km.} = \dots \text{ m.}$  ( 24.5 or 245 or 0.245 or 2450 )

( 2 ) The longest chord in a circle is called a ..... ( chord or diameter or radius or otherwise )

( 3 )  $\frac{1}{4} = \dots$ 

( 0.2 or 0.5 or 0.25 or 2.5 )

( 4 )  $\frac{1}{3} \boxed{\quad} \frac{1}{2}$ 
(> or < or = or  $\geq$ )
( 5 ) 36 days  $\simeq \dots$  weeks (to the nearest week) ( 4 or 5 or 6 or 7 )
( 6 )  $57.3 \times 100 = \dots$  ( 0.573 or 0.0573 or 5730 or 5.73 )
( 7 )  $2\frac{2}{3} \times 4\frac{1}{8} = \dots$  ( 11 or 10 or 1.1 or 111 )
( 8 ) 2 ..... the set of digits of 1325 (  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )
( 9 ) If  $8 \in \{3, 5, 4, x\}$ , then  $x = \dots$  ( 2 or 3 or 4 or 5 )
( 10 ) If  $a \in X$ , then  $a \dots X$  (  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

( 11 ) The smallest number from the following is .....

( 0.123 or 0.111 or 0.12 or 1.023 )

( 12 ) If  $\{4, 5, 6\} = \{6, 4, x + 1\}$ , then  $x = \dots$ 

( 4 or 5 or 6 or 3 )

( 13 ) When tossing a coin once, then the probability of appearing a head  
 $= \dots$  ( 0 or 1 or 2 or  $\frac{1}{2}$  )
( 14 )  $3.36 \div 0.6 = \dots$  ( 5.6 or 56 or 0.56 or 6.5 )

**2** Complete :
( 1 ) If  $\frac{3}{8} = \frac{a}{24}$ , then  $a = \dots$ 
( 2 )  $\frac{3}{7} \times \dots = 1$ 
( 3 ) If  $X \subset Y$ , then  $X \cup Y = \dots$ 

( 4 ) The point of intersection of the three altitudes of obtuse-angled triangle lies ..... the triangle.

( 5 ) The probability of the sure event is .....

( 6 ) A circle , its diameter length = 6 cm. , then its radius length = ..... cm.

( 7 )  $7.52 + (14.73 - 11.53) \approx \dots \dots \dots$  (to the nearest  $\frac{1}{10}$ )

( 8 ) When tossing a fair die once , then the probability of appearing the number 7 is .....

**3 Answer the following :**

( 1 ) Arrange in a descending order :

$$\frac{1}{4}, 0.8, 0.4 \text{ and } \frac{1}{2}$$

( 2 ) Draw the triangle ABC in which

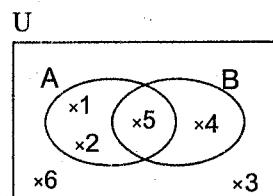
$$AB = AC = 5 \text{ cm.}, BC = 8 \text{ cm.}$$

Draw the altitude  $\overline{AD}$  , find its length.

( 3 ) From the opposite Venn diagram , find :

[a]  $A \cup B = \dots \dots \dots$  [b]  $A \cap B = \dots \dots \dots$

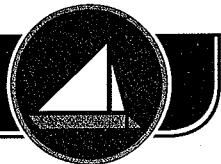
[c]  $A - B = \dots \dots \dots$  [d]  $B' = \dots \dots \dots$



( 4 ) A box contains identical balls where 5 balls are white , 9 red balls and 6 black balls , if one ball is chosen randomly , what is the probability that the chosen ball is white ?

**18 Damietta Governorate**

Damietta Educational Directorate  
 Maths Inspection



Answer the following questions :

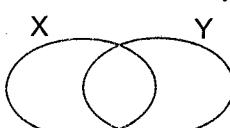
**1 Choose the correct answer :**

( 1 )  $7\frac{1}{8} \approx \dots \dots \dots$  (to the nearest tenth) ( 0.7 or 7.2 or 7.1 or 7 )

( 2 ) If  $\{6, 10\} \subset \{10, x - 4\}$  , then  $x = \dots \dots \dots$

( 2 or 4 or 6 or 10 )

( 3 ) The shaded part  
 is .....



(  $X \cap Y$  or  $X - Y$  or  $Y - X$  or  $Y \cup X$  )

**Final Examinations**

( 4 )  $0.312 \times 100$    $312 \div 100$  ( $>$  or  $<$  or  $=$  or  $\leq$ )

( 5 ) A square of side length = 3.5 cm. , then its area = ..... cm<sup>2</sup>  
( 14 or 122.5 or 12.25 or 7 )

( 6 ) A circle M , the length of its diameter = 10 cm. , if MA = 8 cm.  
, then the point A lies ..... the circle.  
( inside or outside or on or otherwise )

( 7 ) 43 days  $\simeq$  ..... weeks. (to the nearest week)  
( 4 or 5 or 6 or 7 )

( 8 )  $A - \bar{A} =$  ..... ( $\bar{A}$  or A or  $\emptyset$  or U)

( 9 )  $736.592 \simeq 736.59$  (to the nearest .....)  
( unit or tenth or hundredth or thousandth )

(10) If  $X \subset Y$  , then  $X \cup Y =$  ..... ( X or Y or  $\emptyset$  or U )

(11) The quotient of diving  $1.92 \div 0.6 =$  .....  
( 3.5 or 3.2 or 3.1 or 3 )

(12) 7.3 m. = ..... dm. ( 7.3 or 0.73 or 73 or 730 )

(13) The altitudes of the obtuse-angled triangle intersect at one point  
located ..... the triangle.  
( inside or on or outside or otherwise )

(14) 7 ..... the set of days of the week. ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

**2 Complete the following :**

( 1 ) The number of subsets of the set {a , b} is .....

( 2 ) If  $\frac{x}{3} = \frac{20}{12}$  , then  $x =$  .....

( 3 ) The number of altitudes in the equilateral triangle = .....

( 4 )  $2\frac{3}{4} \div 1\frac{3}{8} =$  .....

( 5 ) As throwing a fair die once , then the probability of appearing  
a number less than 3 is .....

( 6 )  $\{2 , 4 , 6\} \cap$  the set of all factors of the number 6 = .....

( 7 ) Any chord passing through the centre of a circle is called .....

( 8 ) The ascending order of  $\frac{1}{4}$  ,  $\frac{4}{5}$  , 0.4 and  $\frac{3}{4}$   
is ..... , ..... , ..... and .....

**3** Answer the following :

( 1 ) A factory produces 235 pieces of cloth monthly. In how many months does it produce 26555 pieces of cloth ?

.....

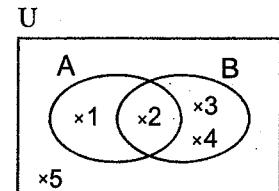
( 2 ) From the opposite Venn diagram , find the following :

[a]  $A \cap B = \dots$

[b]  $A \cup B = \dots$

[c]  $A - B = \dots$

[d]  $A' = \dots$



( 3 ) A card has been randomly drawn out of 10 cards numbered from 1 to 10

Find the probability of getting :

[a] A prime number = .....

[b] An even number less than 6 = .....

( 4 ) Draw the triangle ABC in which

$AB = 4 \text{ cm.}$  ,  $BC = 6 \text{ cm.}$  and  $CA = 8 \text{ cm.}$

, then draw a circle whose centre is B

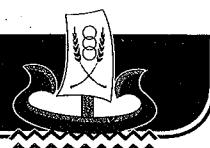
and its radius length is equal to 4 cm.

, then complete :

..... is called the radius of the circle.

**19**
**Kafr El-Sheikh Governorate**

Maths Supervision



Answer the following questions :

**1** Complete :

( 1 ) If  $A \subset B$  , then  $A - B = \dots$

( 2 )  $2\frac{3}{4} \div 1\frac{3}{8} = \dots$

( 3 ) The longest chord in the circle is called .....

( 4 )  $3.125 \times 4.3 = \dots \simeq \dots$  (to the nearest 0.01)

( 5 )  $\frac{2}{5} \times 15 = \dots$

( 6 ) The number of subsets of the set  $A = \{5, 2\}$  is .....

( 7 ) The number of altitudes of the right - angled triangle is .....

( 8 ) The probability of the impossible event = .....

## Final Examinations

**2** Choose the correct answer :

(9)  $806.7 \div 100 = \dots$  ( 80.67 or 8.607 or 8.076 or 8.067 )

(10)  $\{5\} \dots \{15, 55\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(11) The altitudes of any triangle intersect at .....  
( three points or two points or one point or zero point )

(12) 40 days  $\simeq \dots$  weeks. (to the nearest week)  
( 8 or 7 or 6 or 5 )

(13)  $2.7 \times 3.5 \boxed{\phantom{00}}$   $0.27 \times 35$  ( $\neq$  or  $>$  or  $<$  or  $=$ )

(14) If  $\{3, 5\} - \{5, x\} = \emptyset$ , then  $x = \dots$  ( 3 or 5 or 8 or 2 )

(15)  $\emptyset \dots \{0, 7\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(16)  $255 \div 25 = 2.55 \div \dots$  ( 2.5 or 0.25 or 25 or 2500 )

(17)  $\frac{3}{7} \times 1\frac{5}{9} = \dots$  ( $\frac{3}{2}$  or  $\frac{2}{3}$  or  $1\frac{15}{63}$  or  $\frac{3}{4}$ )

(18)  $6630 \div 195 = \dots$  ( 304 or 340 or 430 or 34 )

(19) If  $5 \in \{2, x+4, 7\}$ , then  $x = \dots$  ( 1 or 5 or 9 or 13 )

(20)  $2 \boxed{\phantom{00}} \frac{9}{4}$  ( $>$  or  $<$  or  $=$  or  $\geq$ )

(21) If  $X - Y = X$ , then  $X \cap Y = \dots$  ( X or Y or U or  $\emptyset$  )

(22) A circle, its radius length = 3.5 cm. , then its diameter length = ..... cm.  
( 5 or 6.10 or 7 or 8 )

**3** Answer the following :

(23) A card is drawn from numbered cards from 1 to 10 randomly.

Find the probability that the drawn card is carrying :

[a] An odd number = ..... [b] A prime number = .....

[c] A number less than 11 = .....

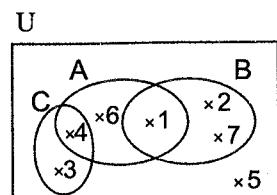
[d] A whole number between 5 and 6 = .....

(24) The opposite Venn diagram represents the sets A , B , C and U , complete :

[a]  $A \cup C = \dots$  [b]  $A \cap B = \dots$   
 [c]  $B - C = \dots$  [d]  $(A \cup B) = \dots$

(25) Arrange the following fractions in an ascending order :

$14\frac{1}{4}$  , 15.025 , 14.375 and  $14\frac{1}{8}$



The order is : ..... , ..... , ..... and .....

(26) Draw the triangle ABC in which

$AB = 7 \text{ cm.}$ ,  $BC = CA = 6 \text{ cm.}$

, then draw the line segment from  
the point C that is perpendicular to  $\overline{AB}$   
, and find its length.

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El-Beheira Governorate

Damanhur Educational Directorate  
Al-Farabi Language School



Answer the following questions :

1 Choose the correct answer :

(1) The triangle which the measures of its angles are  $50^\circ$  ,  $90^\circ$  and  $40^\circ$  is  
called ..... triangle.

( acute-angled or obtuse-angled or right-angled or otherwise )

(2)  $4\frac{1}{3} \times 2\frac{1}{13} = \dots$  ( 1 or 10 or 9 or 111 )

(3) If  $\{7, 10\} = \{10, x + 4\}$  , then  $x = \dots$  ( 3 or 4 or 5 or 6 )

(4)  $3.75 \times 1000 = \dots$  ( 0.375 or 0.0375 or 3750 or 37.5 )

(5)  $\frac{1}{2} \boxed{\quad} \frac{1}{3}$  ( $<$  or  $>$  or  $=$  or otherwise )

(6)  $9.989 \simeq \dots$  (to the nearest 0.01) ( 9.9 or 10 or 9.99 or 9 )

(7)  $55.241 \times 100 \boxed{\quad} 522.41 \times 10$  ( $<$  or  $>$  or  $=$  or otherwise )

(8)  $\frac{2}{3} \times \dots = 1$  ( 1 or 2 or 3 or  $\frac{3}{2}$  )

(9) 43 days  $\simeq \dots$  weeks. ( 4 or 6 or 5 or 7 )

(10) Each chord passing through the centre of the circle is called a .....  
in the circle. ( diameter or radius or side or otherwise )

(11) The smallest number from the following is .....

( 0.111 or 0.12 or 0.123 or 1.023 )

(12) If  $Y = \{2, 4, 6\} \cup \{1, 2, 3\}$  , then  $6 \dots Y$

(  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

(13) A class has 40 pupils, 25 of them are boys and the remainder are  
girls , if a pupil is chosen randomly , then the probability that the  
chosen pupil is a girl = ..... (  $\frac{3}{8}$  or  $\frac{5}{8}$  or  $\frac{3}{5}$  or 1 )

(14) The number of the altitudes in any triangle = .....

(1 or 2 or 3 or 4)

**2** Complete each of the following :

(1)  $\frac{4}{6} \div \frac{6}{12} = \dots$

(2) The probability of the certain event = .....

(3) If  $X$  and  $Y$  are two sets and  $X \subset Y$ , then  $X \cap Y = \dots$

(4) If  $5 \in \{1, x\}$ , then  $x = \dots$

(5)  $4.6788 \simeq \dots$  (to the nearest thousandth)

(6)  $2.25 \div 1.5 = \dots$

(7)  $3.453 + 4.332 = \dots \simeq \dots$  (to the nearest  $\frac{1}{100}$ )

(8)  $0.532 \times 3.2 = \dots$

**3** Answer the following :

(1) If the universal set  $U = \{x : x \text{ is an odd number, } 1 \leq x \leq 15\}$ ,  $X = \{1, 3\}$ ,  $Y = \{1, 5, 9, 13\}$ , draw a Venn diagram which expresses the sets  $U$ ,  $X$  and  $Y$ , then find :

[a]  $X \cap Y = \dots$  [b]  $\bar{Y} = \dots$

(2) Draw  $\triangle ABC$  in which  $AB = 7 \text{ cm.}$

,  $BC = CA = 6 \text{ cm.}$ , then draw the line segment from point  $C$  that is perpendicular to  $AB$  at  $D$  and find its length.

(3) A bag contains 5 white balls, 9 red balls and 6 black balls. If one ball is chosen randomly, what is the probability that the chosen ball is :

[a] White ? ..... [b] Not red ? .....

(4) A rectangle whose length is 4.1 cm. and width is 3.5 cm., calculate its area.

**21 El-Minia Governorate**


Answer the following questions :

**1 Choose the correct answer :**

(1)  $\frac{5}{6} \div 1\frac{1}{6} = \dots \quad (\frac{5}{7} \text{ or } \frac{2}{6} \text{ or } \frac{3}{7} \text{ or } \frac{7}{6})$

(2) 43 days  $\simeq \dots$  weeks (to the nearest week) (4 or 6 or 5 or 7)

(3) If  $\{2, 3, 4\} = \{3, 4, x\}$ , then  $x = \dots \quad (2 \text{ or } 3 \text{ or } 4 \text{ or } 5)$

(4)  $10 \times 4.72 \square 100 \times 0.472 \quad (> \text{ or } < \text{ or } = \text{ or } \neq)$

(5) In any triangle, the number of its altitudes = .....

(1 or 2 or 3 or 4)

(6)  $3\frac{1}{8} \simeq \dots$  (to the nearest hundredth)

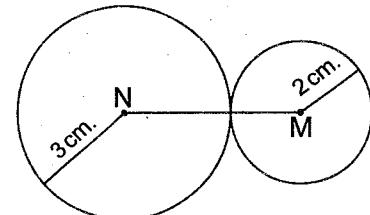
(3.10 or 3.12 or 3.13 or 3.11)

(7)  $\emptyset \dots \{0\} \quad (= \text{ or } \subset \text{ or } \not\subset \text{ or } \in)$

(8) 3.36 km. = ..... m. (3.36 or 33.6 or 336 or 3360)

**(9) In the opposite figure :**

MN = ..... cm.



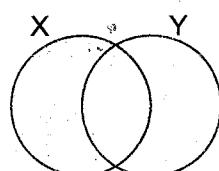
(2 or 3 or 6 or 5)

(10) If  $X = \{3, 4, 5\}$ ,  $Y = \{2, 3, 4\}$ , then  $5 \dots X - Y$

( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(11)  $48.2 \times 3.7 \square 4.82 \times 37 \quad (> \text{ or } < \text{ or } = \text{ or } \neq)$

(12) The shaded part represents .....



( $X \cap Y$  or  $X \cup Y$  or  $X - Y$  or  $Y - X$ )

(13)  $12.3 \times \dots = 1230 \quad (10 \text{ or } 100 \text{ or } 1000 \text{ or } 10000)$

(14)  $\{52\} \dots \{5, 2\} \quad (\in \text{ or } \notin \text{ or } \subset \text{ or } \not\subset)$

**2 Complete :**

(1)  $2.03 \times 0.07 = \dots$

(2) A circle of diameter length 4 cm. , then its radius length = ..... cm.

 (3) If the probability of a pupil succeed in an exam is  $\frac{8}{10}$  , then the probability of his fail = .....

(4)  $2\frac{1}{4} \times \dots = 1$

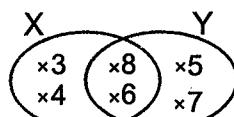
(5) The longest chord in a circle is called .....

 (6) If  $X \subset Y$  , then  $X \cap Y = \dots$ 

(7) If  $\frac{b}{8} = \frac{15}{24}$  , then b = .....

(8) In the opposite figure :

$$X \cap Y = \dots$$


**3 Answer the following :**

(1) Arrange in a descending order :

$$\frac{1}{2}, 0.8, \frac{1}{4} \text{ and } 0.3$$

The descending order is : ..... , ..... , ..... and .....

(2) Find the subsets of the set {8}

The subsets are ..... and .....

(3) From the table , find the probability that a pupil plays basketball :

Game	Football	Basketball	Handball
Number of pupils	50	40	10

The probability = .....

(4) Draw the triangle ABC where :

AB = 4 cm. , BC = 6 cm. , CA = 8 cm.

, then draw a circle its centre B

and its radius length 4 cm.

## 22 Souhag Governorate

Maths Supervision



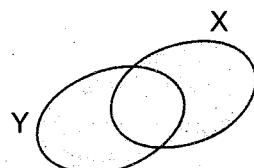
Answer the following questions :

## 1 Choose the correct answer :

 (1)  $9\frac{3}{25} \approx \dots$  (to the nearest tenth) (0.9 or 9.2 or 9.1 or 9)

 (2)  $0.312 \times 100 \boxed{\quad} 312 \div 100$  ( $>$  or  $<$  or  $=$  or  $\leq$ )

(3) The shaded part represents .....


 ( $X \cup Y$  or  $X \cap Y$  or  $X - Y$  or  $Y - X$ )

(4) The number of altitudes in the right-angled triangle is .....

(1 or 2 or 3 or 4)

 (5) If  $\{7, 10\} \subset \{10, x+4\}$ , then  $x = \dots$ 

(3 or 4 or 5 or 6)

 (6) The reciprocal of  $3\frac{1}{2}$  is ..... ( $\frac{7}{2}$  or  $\frac{2}{7}$  or  $3\frac{2}{1}$  or 8)

 (7)  $5.035 \approx \dots$  (to the nearest  $\frac{1}{100}$ ) (5 or 500 or 5.04 or 5.03)

(8) The set of odd numbers is ..... set.

(a finite or an empty or an infinite)

 (9) The number of subsets of the set  $\{a, b\}$  is .....

(3 or 4 or 5 or 2)

(10) The length of the longest chord in the circle is 6 cm. , then the length of the radius of this circle = ..... cm. (6 or 3 or 4.5 or 12)

 (11)  $\{7, 8\} \dots \{5, 7, 10\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

 (12)  $\frac{5}{6} \div 1\frac{1}{6} = \dots$  ( $\frac{5}{7}$  or  $\frac{2}{6}$  or  $\frac{3}{7}$  or  $\frac{7}{8}$ )

 (13) If  $\frac{a}{3} = \frac{5}{15}$  , then  $a = \dots$  (4 or 5 or 1 or 2)

 (14)  $12 \dots \{10, 2\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

## 2 Complete each of the following :

 (1)  $3.002 \text{ kg.} = \dots \text{ gm.}$

( 2 ) The probability of the sure event = .....

( 3 )  $\frac{3}{7} \times \dots = 1$

( 4 ) If  $X \subset Y$  , then  $X \cap Y = \dots$

( 5 ) The area of a rectangle of 15.5 metres long and 5.5 metres wide is  
.....  $m^2$

( 6 )  $3.75 \times 1000 = \dots$

( 7 ) The longest chord in a circle is called a .....

( 8 )  $6.3729 \simeq \dots$  (to the nearest  $\frac{1}{1000}$ )

**3 Answer the following :**

( 1 ) Arrange the following numbers in an ascending order :

$$\frac{1}{4}, 0.8, 0.4, \frac{1}{2} \text{ and } \frac{3}{4}$$

The ascending order is : ..... , ..... , ..... , ..... and .....

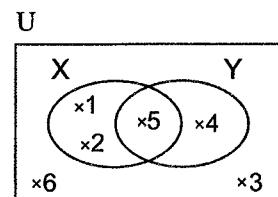
( 2 ) Look at the opposite Venn diagram , then complete :

[a]  $X \cup Y = \dots$

[b]  $X - Y = \dots$

[c]  $(X \cup Y) = \dots$

[d]  $X \cap Y = \dots$



( 3 ) Draw the triangle ABC where

$AB = 6 \text{ cm. and } BC = AC = 5 \text{ cm.}$

( 4 ) If the price of one metre of cloth is L.E. 39.8 , what is the price of 8.5 metres to the nearest L.E. ?

.....

( 5 ) A box contains 3 white balls , 7 red balls and 5 yellow balls , all of equal size , one ball is chosen randomly , find the probability of getting :

[a] A white ball = .....

[b] Not yellow ball = .....

**23 Qena Governorate**


Answer the following questions :

**1 Choose the correct answer :**

 ( 1 )  $3.36 \text{ km.} = \dots \text{ m.}$  ( 3.36 or 33.6 or 336 or 3360 )

 ( 2 )  $9.16 = \dots$  (to the nearest tenth) ( 0.9 or 9.2 or 9.1 or 9 )

 ( 3 )  $0.312 \times 100 \boxed{\quad} 312 \div 100$  ( $<$  or  $>$  or  $=$  or  $\leq$ )

( 4 ) The smallest number from the following is .....

( 0.111 or 0.12 or 0.123 or 1.023 )

 ( 5 )  $\frac{5}{6} \div 1\frac{1}{6} = \dots$  ( $\frac{5}{7}$  or  $\frac{2}{6}$  or  $\frac{3}{7}$  or  $\frac{7}{6}$  )

( 6 ) A circle with a diameter length 6 cm. , then its radius length = .... cm.

( 2 or 4 or 3 or 6 )

( 7 ) The probability of the impossible event = .....

( 0 or 1 or 0.5 or 2 )

 ( 8 ) If  $X \subset Y$  , then  $X \cup Y = \dots$  ( $X$  or  $Y$  or  $U$  or  $\emptyset$  )

( 9 ) As throwing a fair die once , then the probability of getting an odd number = .....

 ( 1 or 0 or  $\frac{1}{2}$  or  $\frac{1}{3}$  )

(10) The number of altitudes of a triangle = .....

( 1 or 2 or 0.5 or 3 )

**2 Complete the following :**

( 1 ) The longest chord in the circle is called .....

 ( 2 ) If  $\{4, 6\} = \{1 + x, 4\}$  , then  $x = \dots$ 

 ( 3 )  $2.5 \times 2.31 = \dots$ 

 ( 4 )  $5\frac{1}{3} \times 6 = \dots$ 

 ( 5 )  $\frac{2}{5} \div \frac{7}{5} = \dots$ 
**3 Answer the following :**

 ( 1 ) If  $U = \{1, 2, 3, 4, 5, 6, 9\}$  ,  $X = \{2, 3, 5\}$  and  $Y = \{2, 4, 6\}$ 

 Represent each of  $X$  ,  $Y$  and  $U$  using a Venn diagram , then find :

## Final Examinations

[a]  $X \cup Y = \{ \dots \}$

[b]  $X \cap Y = \{ \dots \}$

[c]  $U - X = \{ \dots \}$

[d]  $\complement Y = \{ \dots \}$

( 2 ) Find the area of the rectangle whose length is 4.1 cm. and its width is 3.5 cm.

The area of the rectangle = .....

( 3 ) Rearrange the following fractions descendingly :

$$\frac{1}{2}, 0.8, \frac{1}{4} \text{ and } 0.3$$

The order is : ..... , ..... , ..... and .....

( 4 ) Draw the equilateral triangle ABC

whose side length = 5 cm. , then

draw  $\overline{AD} \perp \overline{BC}$  , then find :

[a] The perimeter of triangle ABC

[b]  $m(\angle CAD)$  by measuring.

( 5 ) A fair die is thrown once , what is the probability of each the following events ?

[a] Appearing an odd number = .....

[b] Appearing an even number = .....

[c] Appearing a number less than one = .....

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Luxor Governorate

 Luxor Educational Zone  
 El-Salaam private Language School


Answer the following questions :

1 Choose the correct answer :

( 1 ) A circle , its diameter length is 10 cm. , then its radius length = ..... cm.

( 3 or 5 or 6 or 9 )

(2)  $0.737 \simeq \dots$  (to the nearest hundredth)

(0.72 or 0.74 or 0.738 or 0.8)

(3) If  $9 \in \{8, 3, x\}$ , then  $x = \dots$  (9 or 4 or 7 or 8)

(4) If  $\frac{2}{5} = \frac{a}{15}$ , then  $a = \dots$  (6 or 9 or 7 or 1)

(5) If  $X = \{1, 2, 3\}$ ,  $Y = \{2, 3, 5, 6\}$ , then  $X \cap Y = \dots$

({1} or {2, 3} or {1, 2} or {1, 2, 3})

(6) Any triangle has ..... altitudes. (4 or 2 or 3 or 5)

(7)  $\{2, 5, 6\} - \{6, 5, 3\} = \dots$

({2} or {2, 5, 6} or {5} or {5, 6})

(8)  $3 \dots \{2, 3\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(9)  $\frac{5}{8} \boxed{\quad} \frac{3}{8}$  ( $>$  or  $<$  or  $=$  or  $\leq$ )

(10)  $7.134 \times 100 = \dots$  (0.7134 or 713.4 or 7134 or 71340)

(11)  $1.2 \times 3 = \dots$  (4.8 or 0.36 or 0.48 or 3.6)

(12)  $\frac{2}{5} \div \frac{1}{4} = \dots$  ( $\frac{8}{5}$  or  $\frac{6}{5}$  or  $\frac{2}{8}$  or  $\frac{3}{8}$ )

(13)  $\emptyset \dots \{3, 8\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(14)  $75.3 \div 100 = \dots$  (735 or 7.53 or 0.753 or 75300)

**2 Complete :**

(1)  $3.6788 \simeq \dots$  (to the nearest thousandth)

(2) The longest chord in a circle is called .....

(3) If  $\frac{4}{7} < \frac{x}{7} < \frac{6}{7}$ , then  $x = \dots$

(4)  $\{1, 3, 5\} \cup \{4, 2\} = \dots$

(5)  $31.2 \div 10 = \dots$

(6) If  $\{a, 7\} = \{7, 8\}$ , then  $a = \dots$

(7) The altitudes of the acute-angled triangle intersect ..... the triangle.

(8) The probability of the certain event = .....

**3 Answer the following :**

(1) Find the result :

$$\frac{1}{5} \times \frac{3}{4} = \dots$$

( 2 ) A bag contains 2 white balls , 4 red balls and 5 yellow balls. All the balls are equal in size. If a ball is drawn randomly :

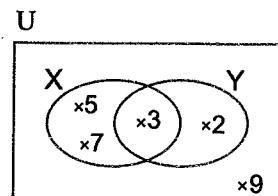
[a] The probability that the drawn ball is white = .....

[b] The probability that the drawn ball is yellow = .....

( 3 ) From the opposite Venn diagram , find :

[a]  $U = \dots$

[b]  $X \cap Y = \dots$

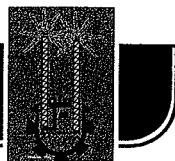


( 4 ) Draw equilateral triangle ABC  
 whose side length = 5 cm. and  
 draw an altitude from a vertex C  
 perpendicular to  $\overline{AB}$

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Answer the following questions :

1 Choose the correct answer :

( 1 )  $X \cup X = \dots$  ( X or  $\emptyset$  or U )

( 2 )  $13.376 \approx \dots$  (to the nearest hundredth) ( 13.37 or 13.38 or 13.36 )

( 3 )  $3.75 \times 1000 = \dots$  ( 0.375 or 3750 or 37.5 )

( 4 )  $\frac{1}{2} \boxed{\quad} \frac{1}{3}$  ( $>$  or  $<$  or  $=$ )

( 5 ) If  $\frac{x}{8} = \frac{15}{24}$  , then  $x = \dots$  ( 3 or 4 or 5 )

( 6 )  $\frac{2}{3} \times \dots = 1$  ( 1 or 2 or  $\frac{3}{2}$  )

( 7 )  $\frac{7}{10} \div \frac{9}{10} = \dots$  ( $\frac{7}{9}$  or  $\frac{9}{10}$  or  $\frac{7}{10}$  )

( 8 )  $7.2 \times 0.9 = \dots$  ( 6.48 or 648 or 0.648 )

( 9 )  $75.3 \div 100 = \dots$  ( 753 or 7.53 or 0.753 )

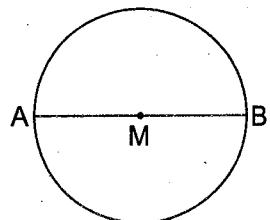
(10)  $\emptyset \dots \{1, 2, 3\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

(11) If  $\{2, 5\} = \{5, a\}$  , then  $a = \dots$  ( 1 or 2 or 3 )

(12) If  $5 \in \{1, 4 + x\}$ , then  $x = \dots$  (1 or 3 or 5)

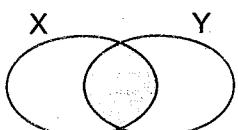
(13) In the opposite figure :

$\overline{AB}$  is called a .....



(radius or chord or diameter)

(14) The shaded part represents .....



( $X \cup Y$  or  $X \cap Y$  or  $X - Y$ )

**2 Complete :**

(1)  $48.4 \div 0.4 = \dots$

(2)  $3978 \div 234 = \dots$

(3) If  $X \subset Y$ , then  $X \cap Y = \dots$

(4) If  $X = \{2, 3\}$ ,  $Y = \{3, 5\}$ , then  $X \cup Y = \dots$

(5) The longest chord in a circle is called .....

(6) The right-angled triangle has ..... altitudes.

(7)  $38.76 + 25.38 = \dots$

(8) When tossing a coin once, then the probability of appearing a tail = .....

**3 Answer the following :**

(1) An owner of packing food factories wanted to pack 2952 kilograms of sugar equally in 123 packs. What is the weight of each pack ?

.....

(2) If  $X = \{1, 2, 3, 4\}$ ,  $Y = \{2, 4, 6, 8\}$  Find :  $X - Y$

.....

(3) A box contains identical balls where 5 white balls, 9 red balls and 6 black balls. What is the probability that the chosen ball is white ?

.....

(4) Draw the isosceles triangle ABC  
 in which  $BC = 4$  cm. and  
 $AB = AC = 6$  cm., then draw  $\overline{AD} \perp \overline{BC}$